

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 59006897  
PUBLICATION DATE : 13-01-84

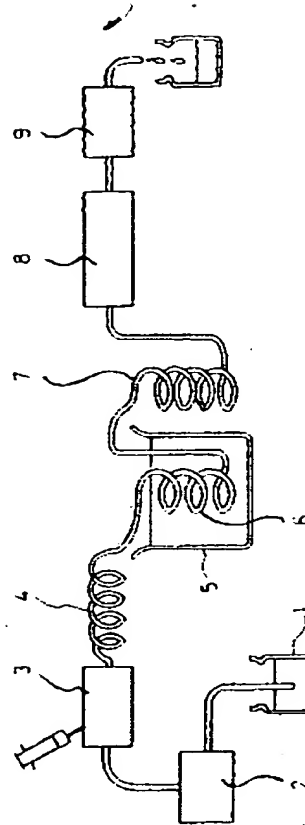
APPLICATION DATE : 06-07-82  
APPLICATION NUMBER : 57118089

APPLICANT : SEKISUI CHEM CO LTD;

INVENTOR : FUSHIMI KATSUO;

INT.CL. : C12Q 1/00 G01N 33/52 // C12M 1/34  
C12M 1/40

TITLE : METHOD FOR DETERMINING  
COMPONENT IN LIVING BODY WITH  
IMMOBILIZED ENZYME



ABSTRACT : PURPOSE: To make it possible to determine components to be measured with a high accuracy, by introducing a biological sample solution into a heating tank before introducing the biological sample solution into a column, and previously inactivating interfering enzymes for the components to be measured by the heat treatment.

CONSTITUTION: A biological sample solution containing components to be measured, e.g. bile acid, is introduced into a column 8 containing an immobilized enzyme, e.g. 3 $\alpha$ -hydroxysteroid dehydrogenase, and brought into contact with the immobilized enzyme in the column 8 to cause the reaction of the components to be measured. The resultant reduced form coenzyme is then determined in a sensor 9 to determine the amount of the components to be measured. In the method, the biological sample solution is introduced into a heating tank 5 before introducing the biological sample solution into the column 8, and interfering enzymes, e.g. lactic acid dehydrogenase, for the components to be measured are previously inactivated by the heat treatment. As a result, the components to be measured can be determined with a high accuracy without producing reduced form coenzymes unfit for the purpose of the sensing by the interfering enzymes in the biological sample.

COPYRIGHT: (C)1984,JPO&Japio